

City of Bremen

2008 Annual Water Quality Report

System I. D. # GA 1430000

The City of Bremen is pleased to present you this year's Annual Quality Water Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with safe and dependable supply of drinking water. We want you to understand the efforts we make to improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

Our water source comes from surface water reservoirs located on the Beech Creek and Bush Creek basins. The Beech Creek surface reservoir is located at our Water Treatment Plant on Waterworks Road and the Bush Creek surface reservoir is located off the Asa Cash Rd. The City also purchases water from the Haralson County Water Authority which distributes its water from the Tallapoosa River.

The sources of drinking water (both tap and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material. The water can pick up substances resulting from the presence of animals or from human activity. Substances that may be present in water include the following:

- Microbial substances, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- Inorganic substances, such as salts and metals, which can be naturally occurring or result from urban storm runoff, industrial or domestic discharges, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm runoff and residential uses.
- Organic chemical substances, including synthetic and volatile organic chemicals, which are by-products of industrial processes and can, come from gas stations, urban storm runoff and septic systems.
- Radioactive substances, which can be naturally occurring or be the result of oil and gas production and mining activities.

All drinking water, including bottled water, can be expected to contain at least small amounts of contaminants. The presence of contaminants does not necessarily indicate the water poses a health risk. In order to ensure that tap water is safe to drink, The Environmental Protection Agency (EPA) prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) regulates established limits for contaminants in bottled water which must provide protection for public health. More information about contaminants and potential health effects can be obtained on the EPA web site or by calling their Safe Drinking Water Hotline (800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immune-compromised persons such as persons with cancer

undergoing chemotherapy, persons who have undergone organ transplants, people with HIV+/AIDS or other immune systems disorders, some elderly and infants can be particularly at risks from infections. These people should seek advice about drinking water from their health care providers. EPA and/or Centers for Diseases Control and Prevention (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from their respective web sites or from the Safe Drinking Water Hotline (800-426-4791).

Last year, we conducted tests for many contaminants. We detected ten of those contaminants and found none of those at a higher level than the EPA guidelines. We are committed to providing you with information and encourage you to participate as informed consumers are our best allies. You are encouraged to be present at our City Council meetings at 7:00 p.m. on the third Monday of each month in the Municipal Court Room at the Public Safety Complex.

A Source Water Assessment Plan Report contains the categories of potential pollution sources. This report will reveal sources such as animal feed lots, NPDES storm water and mining, hazardous wastes facilities, Las permit holders and roads that cross over streams. This report may be viewed at the same locations as above.

Lead and/or copper can be present in your inside plumbing. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and residential plumbing. The City of Bremen is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your drinking water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>. The City of Bremen pulled twenty random water samples last year and submitted these samples to the E.P.D. lab to test for lead and copper. We are pleased to announce that all twenty samples were below the E.P.D. set guideline criteria.

Cryptosporidium is a microbial pathogen found in surface water throughout Georgia and the United States. Although filtration removes cryptosporidium, the most commonly-used filtration methods cannot guarantee 100 percent removal. Our monitoring indicates the presence of these organisms in our source water and/or finished water. Current test methods do not determine if the organisms are dead or if they are capable of causing disease. Ingestion of cryptosporidium may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immune-compromised people are a greater risk of developing life-threatening illness. We encourage immune-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. Cryptosporidium must be ingested to cause disease and it may be spread through means other than drinking water. Our water system submits water samples for testing to the Georgia E.P.D. Lab each month.

Radon is a radioactive gas that you cannot see, taste or smell. It is found in Georgia and throughout the United States. Radon can move up through the ground and into a home through cracks and holes in the foundation. Radon can build up to high levels in all types of homes. Radon can also get into indoor air when released from tap water from showering, washing dishes and other household activities. Compared to radon entering the home through soil, radon entering the home through tap water will, in most cases, be a small source of radon in indoor air. Radon is a known human carcinogen. Breathing air containing radon can lead to lung cancer. Drinking water containing radon may also cause increased risk of stomach cancer. If you are concerned about radon in your home, test the air in your home. Testing is inexpensive and easy. Fix your home if the level of radon in your air is 4 Pico curies per liter of air (pCi/L) or higher. There are simple ways to fix a radon problem that aren't too costly. For additional information, call your state program or call E.P.A.'s Radon Hotline (800-SOS-RADON).

If you have any questions regarding this report or concerns regarding your water, please contact Water Supervisor Michael McLeroy (E-mail address; bremenwater@yahoo.com) at the Water Treatment Plant (770-537-5782) or Operations Manager Mike Thompson, (E-mail address, mthompson@bremenga.gov) at City Hall (770-537-2331). Our mailing address is 232 Tallapoosa St. Bremen, GA 30110. Our fax number is 770-537-5136. This report is available to be viewed on the City of Bremen web site, www.bremenga.gov, the Bremen City Hall or the Warren Sewell Memorial Library. Copies can be obtained at the Bremen City Hall.

Water Sampling Quality Data Table

The table below lists all of the drinking water substances that we detected during the calendar year of this report. The presence of substances in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of this report. We are required to test and monitor for these substances per E.P.A. and E.P.D. guidelines. The E.P.A or the E.P.D. requires us to monitor for certain substances less than once per year because the concentrations of these substances do not change frequently. Although the substances listed here are under the Maximum Contaminate Level (MCL), we feel that as consumers, you know exactly what was detected and how much of the substances were present.

Contaminants	Year Sampled	MCLG [MRDLG]	(AL) MCL [MRDL]	Bremen water system	Range Low/High	Violation	Typical Source
Total Coliform Bacteria	2008	0%	>5%	none	N/A	no	Naturally occurring
Fecal Coliform Bacteria	2008	0%	0%	none	N/A	no	Human and animal waste
Filtered Turbidity * (NTU)	2008	NA	TT<=0.5	0.07	0.04/0.13	no	Soil runoff
Sodium	2008	MRN	MRN	26	N/A	no	Erosion deposits
Nitrate	2008	10	10	Not detected	N/A	no	Soil runoff-Fertilizers
Fluoride (PPM)	2008	4	4	0.76	0.66/0.90	no	Water Additive

TTHMs Trihalomethanes	2008	N/A	80	44.0	26.5/69.0	no	By-product of Chlorine
Total Organic Carbon mg/l	2008	N/A	TT	1.51	1.1/2.1	no	Natural in environment
Chlorine (PPM)	2008	[4]	[4]	1.08	0.76/1.38	no	Water additive
Halo acetic acids	2008	N/A	60	31.1	21.0/52.5	no	By-product of Chlorine

* Turbidity is a measurement of the cloudiness of water. It is a good indicator of the effectiveness of the filtration system.

Contaminants	Year Sampled	MCLG	AL	90 th Percentile	Homes Above AL	Violation	Sources of Contaminants
Lead (PPB)	2008	N/A	15	2.5	0	no	Corrosion in household plumbing
Copper (PPM)	2008	1.3	1.3	0.053	0	no	Corrosion in household plumbing

Table of Definitions:

MNR: monitoring not required

AL (action level): The concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.

MCL (maximum containment level): The highest level of a contaminant that is allowed in drinking water. MCLs are set as

close to MCLGs as feasible using the best available treatment technology.

MCLG (maximum containment level goal): The level of a contaminant in drinking water below which there is no known risk to health. MCLGs allow for a margin of safety.

MRDLG (maximum residual disinfectant level goal): The level of a drinking water disinfectant below which there is no known risk to health. MRDLGs do not reflect the benefits of the disinfectants to control microbial contaminants.

N/A: Not applicable

NTU (Nephelometric Turbidity Units): The measurement of the clarity, or turbidity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

PPB (parts per billion): One part substance per billion parts water (or micrograms per liter).

PPM (parts per million): One part substance per million parts water (or milligrams per liter).

TT (treatment technique): A required process intended to reduce the level of a contaminant in drinking water.

Haralson County Water Quality Table

The table below list all the drinking water substances detected by the Haralson County Water Authority during the calendar year for this report. Since we purchase over half of our water from the County Water Authority, we are required to show their water quality table as well as ours. The presence of these substances in your water does not necessarily indicate the water poses a health risk, unless otherwise noted. The EPA or State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently.

Contaminants	MCLG	MCL	Your Water	Range Low/High	Sample Date	Violation	Typical Source
Haloacetic Acids (HAA5) (ppb)	NA	60	43.2	32.1/43.2	.....	No	Byproduct of drinking water chlorination
Total Organic Carbon (mg/l)	NA	TT	1.50	NA	.....	No	Naturally present in the environment
Fluoride (ppm)	4	4	0.93	0.80/1.10	.....	No	Water additive which promotes strong teeth
Sodium (ppm)	MNR	MNR	32	NA	.....	No	Erosion deposits
Turbidity (ntu)	NA	TT ≤0.05	0.05	NA	.....	No	Soil runoff
Total Trihalomethanes (TTHMs)	NA	80	67.3	58.8/68.1	.....	No	By-product of drinking water Chlorination
Chlorine (ppm)	4	4	1.5	NA	....	No	Water Additive

Contaminants	MCLG	AL	Your Water	No # of Samples	Sample Date	Exceeds AL	Typical Source
Copper (ppm)	1.3	1.3	0.028	20	8/24	No	Corrosion of household plumbing systems ; Erosion of natural deposits
Lead (ppb)	0	15	0.013	20	8/24	No	Corrosion of household plumbing systems ; Erosion of natural deposits